## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-325-1 Relating to Certification of New Motor Vehicles

GFI CONTROL SYSTEMS, INC.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That GFI Control Systems, Inc. 1996 model-year exhaust emission control systems are certified as described below for mediumduty vehicles:

Fuel Type: Dual-Fuel Compressed Natural Gas (CNG) or Gasoline

Engine Family: TG94.958GFJA <u>Displacement</u>: 4.9 Liters (300 Cubic Inches)

## Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter
Oxidation Catalytic Converter
Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Secondary Air Injection
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Test Weight	<u>Miles</u>	Non-Methane	Carbon	Nitrogen	Carbon
(lbs.)		<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	Monoxide (20°F)
3751-5750	50,000 120,000	0.32 0.46	4.4	0.7 0.98	12.5 n/a

The certification exhaust emission values for this engine family operated on CNG in grams per mile are: (The values in parentheses are for gasoline.)

Test Weight (1bs.)	<u>Miles</u>	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	Carbon Monoxide (20°F)
3751-5750	50,000	0.12 (0.32)	2.1 (0.9)	0.5 (0.5)	(3.4)
	120,000	0.15 (0.40)	2.7 (1.1)	0.68 (0.66)	n/a

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", pursuant to provisions in the said standards and test procedures applicable to small-volume manufacturers.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this

day of February 1996.

R. B. Summerfield Assistant Division Chief Mobile Source Division

E.O.# A-325-1	E.0.	# _	A-325-	1
---------------	------	-----	--------	---

## 199 6 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

Page 1

<u> </u>		_	<b></b>	rom, Tro	A Q58GF.JA F	vap Fam: TFM1	045AYMBB
Manufacturer: (	GFI Control Syste	ms, Inc.	Exh Eng	ram: <u></u>	ARQ65	<u></u>	
All Eng Codes	in Eng Fam: CA	49S	3	U3 <u>X</u>	7FV :	US EPA	Tier-l <u>x</u>
Exh Std: CA T	in Eng Fam: CA ier-1 <u>x</u> TLEV	L	EV	ULEV	, 	Use Alt	In Use <u>x</u>
Evap Std: 50K	ier-1 <u>x</u> TLEV <u>x</u> Useful Life	with R/L	In-	USE EXI	Sta. MDV3	MDV4	MDV5
Veh Class(es):	_x Useful Life PC LDT1	_ LDT2	MDV1_	יטוא	V2 <u>X</u> 11013	IDV1 MDV2 M	DV3, MDV4)
Single Cert St	PCLDT1 d for Multi-Class	Eng Fam:	(\$	pecity:	N/A, LUII, I	Gasoline X	Diesel
Fuel Type(s):	d for Multi-Class Dedicated Fl	ex-Fuel	_ Dual-F	uel_X_	B1-ruel	dasor mo <u>n</u>	
	Dedicated FI CNG_x_ LNG	LPG M	185 01	ther (sp	ecity)	(specify)	
Fmiss Test Fue			10 111	" MX	ים טעווטו	\	
Emilia	Diesel:	13 CCR 228	32	40 CFR	86.113-90	u) Mfr 's As	signed DFs
Service Accum:							
NMOG Test Proc	Std AMA Mocedure: N/A_x_	Std	Equiv	_ R/	L lest Proc:	11. n/a	
Hybrid: Type	cedure: N/A_x A B C,	APU Cycl	e (e.g.,	Otto, Di	iesel, jurbine	) ·	bic Inches
Fnaine Config	A B C, uration: <u>I-6</u>	Displacem	ent: <u>4.9</u>		Liters <u>30</u>	o 3400	RPM
Valves per Cy	uration: <u>I-6</u> linder: <u>2</u>		Rated	HP:	150	4MD_FT /	4WD - PT
Fxhaust ECS (	t <u>x</u> mia <u> </u>	C, CAC):_	TWC,	OC, HOZ	viations per	AE J1930 SEP	91)
	•	_				EGR	Catalytic
Engine Code	Vehicle Models	Trans.	ETW	DPA or	(ECM/DCM)	System	Converter
(also list	<pre>(if coded see attachment)</pre>	(M5, A4 etc.)	Test Wt.	RĽHP	Part No.	Part No.	Part No.
<u>CA/49ST/50ST</u>	accaeranerroy		·				FETA AV2
C FAV	Ford F150	L4	5500		V9-160	F6TE-EA	F6TA-AK3
6.52V	1014 1150			NO A/C			l
				16.0			
				A/C			
	F250	ļ	5500	14.5			
	1230			NO A/C			
				16.0			
			\ \	A/C			
		İ	1	1			
			.				
			1	[		1	
					1		
					1		

Date Issued:

Revisions: